AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Fluorocarbon A fluorocarbon emulsion for medicinal purposes, which includes rapidly eliminated fluorocarbon compounds such as perfluordecaline or perfluorocctylbromide, a fluorocarbon supplement and a phospholipid, the fluorocarbon comprising:

characterised in that

a composition of perfluorodecaline and perfluorooctylbromide [[is]] used as rapidly eliminated component, in which the <u>a</u> fluorocarbon supplement represents is a mixture of perfluorinated tertiary amines, and the phospholipid [[is]] used as a dispersion in a water-salt medium.

- 2. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, further comprising characterised in that it contains 2 40% by vol. fluorocarbon compounds.
- 3. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein a characterised in that the composition of rapidly eliminated fluorocarbon compounds contains perfluorodecaline and perfluoroctylbromide in the a ratio between 10:1 and 1:10.

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- 4. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein eharacterised in that the fluorocarbon supplement contains 1 to 50% of the <u>a</u> total content of the <u>a</u> composition of rapidly eliminated fluorocarbon compounds.
- 5. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein characterised in that the mixture of perfluorinated tertiary amines contains a mixture of perfluorotripropylamine and coproducts thereof, namely including cis- und trans-isomers of perfluoro-1-propyl-3,4-dimethylpyrrolidone and perfluoro-1-propyl-4-methylpiperidine.
- 6. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1 and 5, wherein characterised in that the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.
- 7. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, further comprising characterised in that it contains a phospholipid dispersion in the a water-salt medium in a concentration of 0.2 to 5% by weight.

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- 8. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein characterised in that the phospholipid dispersion in the water-salt medium contains one of egg phospholipids, [[or]] soya phospholipids, [[or]] and phospholipids or a mixture thereof of these lipids.
- 9. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein characterised in that the phospholipid dispersion in the water-salt medium contains as adjuvant vegetable oil in a quantity of 1 15% of the total content of the phospholipids.
- 10. (Currently Amended) <u>Emulsion</u> <u>The fluorocarbon</u> <u>emulsion</u> according to claim 9, <u>wherein</u> eharacterised in that soya oil serves as adjuvant.
- 11. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 9, wherein characterised in that sunflower seed oil serves as adjuvant.
- 12. (Currently Amended) <u>Emulsion</u> <u>The fluorocarbon</u> <u>emulsion</u> according to claim 9, <u>wherein characterised in that</u> ricinus oil serves as adjuvant.

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- 13. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 9, wherein characterised in that a mixture of the mentioned oils in the an effective ratio in the a form of one of a twofold [[or]] mixture and a threefold mixture serves as adjuvant.
- 14. (Currently Amended) <u>Emulsion</u> <u>The fluorocarbon</u> <u>emulsion</u> according to claim 1, <u>wherein</u> characterised in that the composition of the water-salt medium contains sodium salts and potassium salts of chlorides and phosphates and also the monosaccharide mannitol in injection water.
- 15. (Currently Amended) Emulsion The fluorocarbon emulsion according to claim 1, wherein a characterised in that the concentration of the components in the water-salt medium has an osmotic pressure in the range of 100 350 mosmol/l.
- 16. (Currently Amended) Emulsion The fluorocarbon emulsion according to one of the claims 1 to claim 15, wherein characterised in that the \underline{a} mean particle size does not exceed is equal to or less than 0.2 μ m and is in a range of 0.06 0.2 μ m.

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17. (Currently Amended) Method A method for producing a fluorocarbon emulsion which includes a homogenization homogenisation under high pressure, the method comprising:

characterised in that

it is implemented in a plurality of steps, namely a first step of producing a phospholipid dispersion in a water-salt medium, a second step of homogenisation homogenization of the fluorocarbon compounds in the phospholipid dispersion, a third step of heat sterilisation sterilization of the produced emulsion, and a fourth step of subsequent storage of at least 6 months in the a non-frozen state at a temperature of +4°C.

- 18. (Currently Amended) Method The method according to claim 17, wherein characterised in that the phospholipid dispersion in the water-salt medium is produced by homogenisation homogenization at a high pressure of at least 100 atm with subsequent heat sterilisation sterilization.
- 19. (Currently Amended) Method The method according to claim 17, wherein eharacterised in that the fluorocarbon compounds in the phospholipid dispersion are homogenised homogenized at a pressure of 300 atm to 650 atm.

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- 20. (Currently Amended) Method The method according to claim 17, wherein characterised in that the phospholipid dispersion is sterilised sterilized at 100°C.
- 21. (Currently Amended) Method The method according to claim 17, wherein eharacterised in that the fluorocarbon emulsion is sterilised sterilized at 100°C.
- 22. (New) The fluorocarbon emulsion according to claim 1, wherein the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.
- 23. (New) The fluorocarbon emulsion according to claim 1, wherein a mean particle size is equal to or less than 0.2 μm and is in a range of 0.06 0.2 μm .

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